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TITLE: Ribozyme mediated inactivation of the androgen receptor

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promoter interacts with a nuclear factor. *Proc. Natl. Acad. Sci. USA* 87:2705-9 Hollenberg, S. M., Weinberger, C., Ong, E. S., Cerelli, G., Orc, k, Lebo, R., Thompson, E. B., Rosenfeld, M. G., and Evans, R. M. (1985). Primary structure and expression of a functional human glucocorticoid receptor cDNA. *Nature* 318:635-41 Hollingsworth, M., Closken, C., Harris, k, McDonald, C. D., Pahwa, G. S., and Maher, L. J. III (1994). A nuclear factor that binds purine-rich, single-stranded oligonucleotides derived from SI-sensitive elements upstream of the CFTR gene and MUC1 gene. *Nucl. Acids Res.* 22:1138-46 Homann, M., Tzortzakaki, S., Rittner, K, Szakiel, G, and Tabler, M. (1993). Incorporation of the catalytic domain of a hammerhead ribozyme into antisense RNA enhances its inhibitory effect on the replication of human immunodeficiency virus type 1. *Nucl. Acids Res.* 21(12):2809-14 Hong, H., Kohli, K, Trivedi, A., Johnson, D. L., and Stallcup, M. R. (1996). GRIPI, a novel mouse protein that serves as a transcriptional coactivator in yeast for the hormone binding domains of steroid receptors. *Proc. Natl. Acad. Sci. USA* 93(10):4948-52 Horie, K, Takakura, K, Fujiwara, H., Suganami, H., Liao, S., and Mori T. (1992). Immunohistochemical localization of androgen receptor in the human ovary throughout the menstrual cycle in relation to oestrogen and progesterone receptor expression. *Hum. Reprod.* 7(2):184-90 Horwitz, K B., Jackson, T., K, Bain, D. L., Richer, J. K, Takimoto, G. S., and Tung, L. (1996). Nuclear receptor coactivator and corepressor. *Mol. Endocrinol.* 10:1167-77 Hutchison, K k, Dittmar, R. D., and Pratt, W. B. (1994). All of the factors required for assembly of the glucocorticoid receptor into a functional heterocomplex with heat shock protein 90 are preassociated in a self-sufficient protein folding structure, a "foldosome" *J. Biol. Chem.* 269(45):27894-9 Imasaki, K, Okab, T., Mupakami, H., Tauaka, Y., Hugi, M., Takayanagi, R., and Nawata, H. (1995). Androgen insensitivity syndrome due to new mutations in the DNA-binding domain of the androgen receptor. *Mol. Cell. Endocrinol.* 120:15-24 Ing, N. H., Beekman, J. M., Kessler, D. J., Murphy, M., Jayaraman, K, Zendergui, O. G., Hogan, M. E., O'Malley, B. W., and Tsai, M. J. (1993). In vitro transcription of a progesterone-responsive gene is specifically inhibited by a triplex forming oligonucleotide. *Nucl. Acids Res.* 21:2789-96 Inokuchi, Y., Yuyama, N., Hirashima, A-, Nishikawa, S. AU., Ohkawa, J., and Taira, K (1994). A hammerhead ribozyme inhibits the proliferation of an RNA coliphage SP in *Escherichia coli*. *J. Biol. Chem.* 269(15):11361-6 Isaacs, J. T., and Coffey, D. S. (1989). Etiology and disease process of benign prostatic hyperplasia. *Prostate* 2:33-50 Isaacs, J. T., and Kyprianou, N. (1987). Development of androgen-independent tumor cells and their implication for the treatment of prostatic cancer. *Urol. Res.* 15(3):133-8 Janne, O. A., and Shan, L. X. 1991). Structure and function of the androgen receptor. *Ann. N Y Acad. Sci.* 626:21-91 Carvis, T. C., Wincott, F. E., Alby, L. T., McSiviggen, J. A., Beigelman, L., Gustofson, J., DiRenzo, A., Levy, K, Arthour, M., Matulic-Adamic, J., Karpeisky, A., Gonzalez, C., Woolf, T. M., Usman, H., and Stinchcomb, D. T. (1996). Optimizing the cell efficiency of synthetic ribozyme. *J. Biol. Chem.* 268:24515-8 Jenster, G., Trapman, J., and Brinkmann, A. O. (1993). Nuclear import of the human androgen receptor. *Biochem. J.* 293(3):761-8 Jenster, G., van der Korput, H. A., van Vroonhoven, C., van der Kwast, T. H., Trapman, J., and Brinkmann, A. O. (1991). Domains of the human androgen receptor involved in steroid binding, transcriptional activation, and subcellular localization. *Mol. Endocrinol.* 5(10):1396-404 Johnson, A, Jinno, Y., and Merlino, G. T. (1988). Modulation of epidermal growth factor receptor proto-oncogene transcription by a promoter site sensitive to SI nuclease. *Mol. Cell. Biol.* 8:4174-84 Joseph, S., and Burke, J. M. (1993). Optimization of an anti-HIV

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